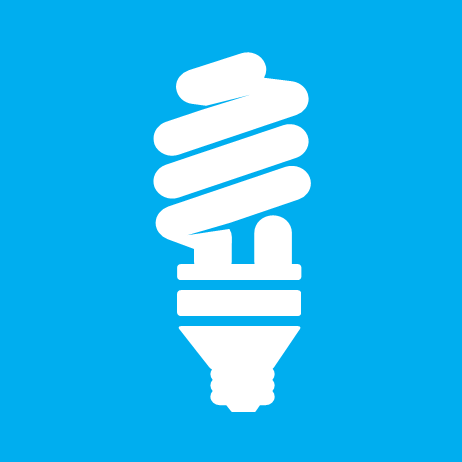
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| C:\Users\tavis\Desktop\siteassets\header.png | IDEA  EIS Infrastructure Design Engineering & Architecture |

Azure SQL Database ARM Template (101-SQL-DB-Basic)

February 1, 2017

Azure sql database deployment

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**Introduction**

The Azure SQL Database ARM template (101-SQL-DB-Basic.json) can be used to deploy a secure instance of an Azure SQL Database on a new Azure SQL logical server. The Azure SQL Database ARM template works in conjunction with the Azure Key Vault ARM template (101-SQL-DBBasic-Key-Vault.json) to securely configure the required Azure SQL administrative account. A post-deployment PowerShell script is subsequently used to configure a SQL AD administrator allowing access management using Active Directory users and groups along with Azure RBAC functionality. The Azure SQL Database ARM template deploys the following:

1. An Azure SQL Logical Server.
2. An Azure SQL database.
3. Provision the SQL administrator account using a secure Key Vault secret.
4. SQL firewall rules to open all Corp egress addresses worldwide.
5. A storage account to contain Azure SQL auditing events.

A post-deployment PowerShell script is provided which does the following:

1. Sets the audit policy for the SQL Server to log all audit event types.
2. Sets the audit policy for the SQL database to log all audit event types.
3. Enables Azure SQL Threat Detection and sets the notification email settings.
4. Turns on Transparent Data Encryption for the database.
5. Configures Azure Active Directory integration and sets the SQL AD Administrator.

The Azure SQL Database template is initially configured to deploy a single Azure SQL database on a new Azure SQL Database logical server. Additional databases can be added to the template as required.

**azure sql database arm template usage**

The Azure Key Vault ARM template must have been successfully deployed prior to deploying the Azure SQL Database template. The name of the key vault deployed as well as the name of the secret in the key vault must be the same as the name of the Azure SQL Database logical server being deployed in the Azure SQL Database ARM template. The credentials used while deploying the SQL Database must have “get” access to the secret in the key vault.

The following parameters are used by the template:

**sqlAuditingStorageAccountType**

This parameter specifies the type of storage account to deploy for SQL auditing. The default is Standard\_LRS.

**sqlServerName**

The name of the logical SQL server to be deployed. This name must match the name of the key vault and the name of the secret in the key vault to be used to configure the Azure SQL Database administrative password.

**sqlDatabaseName**

The name of the SQL database to allocate.

**sqlAdministratorLogin**

The name of the SQL administrator account.

**dataBusinessImpact**

The business impact classification of data to be stored in the database

**sqlDatabaseEdition**

The database edition to allocate.

**sqlServiceLevelObjective**

SQL Service Level Objective for the database to be allocated.

**sqlDatabaseMaxSizeBytes**

The maximum size of the SQL database in bytes.

**sqlDatabaseCollation**

Collation for SQL database.

**service documenation**

Information about the Azure SQL Database service offering can be found here: <https://azure.microsoft.com/en-us/documentation/services/sql-database>.